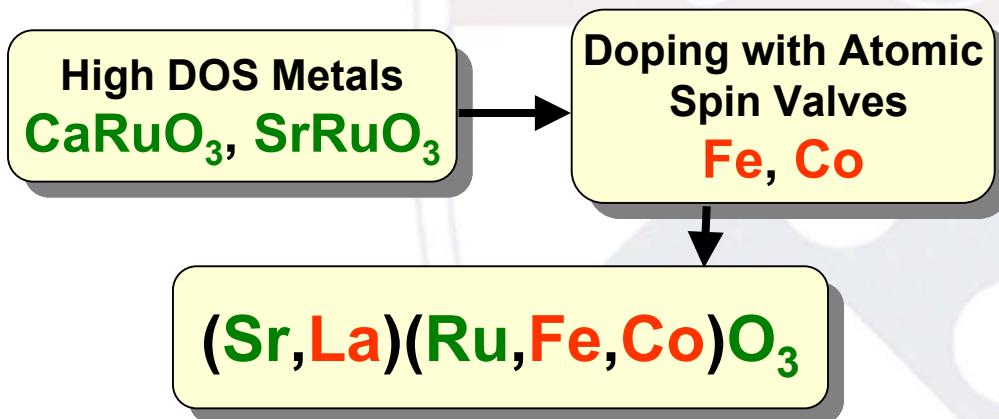


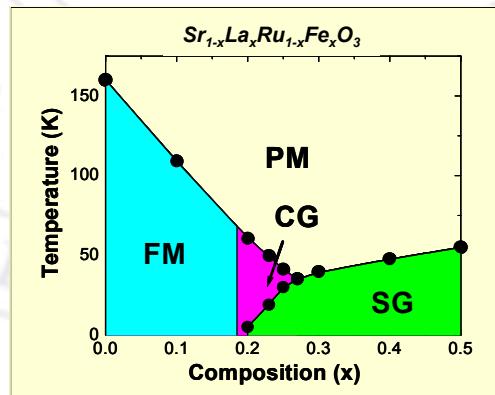
New Magnetoresistant Oxides of Mixed 3d/4d/5d Transition Metals

I.-W. Chen (PI), A. Mamchik (grad. student), F. Huang (post-doc)
Grant No. DMR 03-03458, University of Pennsylvania

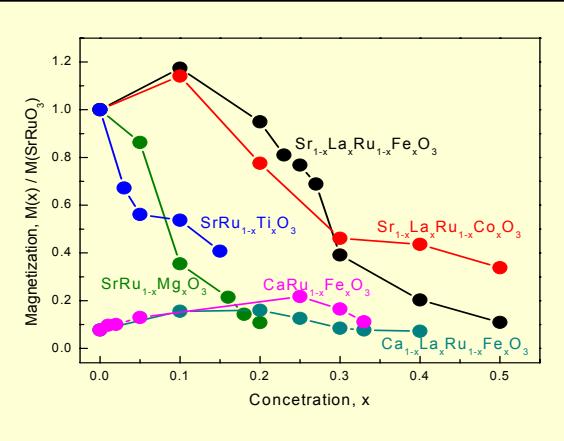


- ❖ First large magnetoresistance observation in atomic spin valve systems
- ❖ Polarization around Fe/Co creates giant moment enhancing magnetization and spin valve switchability

Magnetic phase diagram



Magnetization vs.
concentration



Magnetoresistance
vs. Magnetization

